Regional HIV/AIDS Epidemiologic Profile of Norfolk County, Massachusetts: 2012

Recent changes to the presentation of Massachusetts HIV/AIDS surveillance data

Effective January 1, 2011, the Massachusetts Department of Public Health (MDPH). Bureau of Infectious Diseases, HIV/AIDS fact sheets, epidemiologic reports and other HIV data presentations have been updated to remove all HIV/AIDS cases who were first diagnosed in another state before being reported in Massachusetts. As of January 1, 2012, this resulted in the removal of 2,924 HIV/AIDS cases, of which 808 have died and 2,116 were living. These persons living with HIV/AIDS may still continue to reside and receive care in the Commonwealth. The total number of persons living with HIV/AIDS, irrespective of location of diagnosis, is the basis for MDPH service planning. This change is partially a result of increased activities required by the Centers for Disease Control and Prevention (CDC) for de-duplication among states in an effort to identify cases that are counted multiple times in the National HIV/AIDS Surveillance System. The cases are assigned to the state that reports the earliest date of AIDS diagnosis if available. If the case has not progressed to AIDS, the case is assigned to the state with the earliest HIV diagnosis date. Please note that all previous HIV/AIDS fact sheets, data reports and presentations include cases that may have been first diagnosed in another state.

Also effective January 1, 2011, the MDPH HIV/AIDS fact sheets, epidemiologic reports. and other data presentations have been updated to eliminate the presumed heterosexual exposure mode category for males; those cases have been reassigned to the no identified risk (NIR) exposure mode category. The presumed heterosexual exposure mode category was used with the intention of identifying HIV exposure mode for females when sex with males is the only reported risk factor, there is no evidence of current or past injection drug use (IDU), and behavioral risk and HIV status information about male sexual partners are unknown. Twenty-nine percent of females living with HIV/AIDS and 40% of recent female HIV diagnoses are reported in the presumed heterosexual exposure mode category. The application of the presumed heterosexual exposure mode category to males is overly inclusive in that female to male HIV transmission is biologically less probable, and there are alternate exposure modes that are possible for males, including sex with other men (MSM) or IDU. The CDC reports males diagnosed with HIV/AIDS who report sex with females as their only risk factor, without corresponding partner risk or HIV status information, in the NIR exposure mode category. This revision to report presumed heterosexual male HIV/AIDS cases as NIR will bring Massachusetts HIV/AIDS case reporting for males in alignment with CDC standards. The MDPH will maintain presumed heterosexual and heterosexual exposure mode categories for females.

Table 1. Total number of people reported with HIV infection or AIDS¹ by mortality status on December 31, 2011: Norfolk County, Massachusetts²

	N	%
People Living with HIV/AIDS	862	59%
People Reported with HIV or AIDS who are Deceased	610	41%
Total Number of People Reported with HIV Infection or		
AIDS	1,472	100%

¹ Does not include individuals diagnosed with HIV infection (non-AIDS) who died prior to January 1, 1999 or who were not in care on January 1, 1999
² Effective January 1, 2011, the Massachusetts Department of Public Health HIV/AIDS fact sheets, epidemiologic reports, and other

Data Source: MDPH HIV/AIDS Surveillance Program, Data as of 1/1/12

Table 2. Average annual rate of HIV infection diagnosis from 2008 to 2010 and HIV/AIDS prevalence rate on 12/31/11¹: Norfolk County, Massachusetts²

Average annual HIV diagnosis rate from 2008–2010	Average rate per 100,000	Average annual number of HIV diagnoses
Norfolk County, MA	5.5	37.0
Massachusetts Total	10.3	664.7

HIV/AIDS prevalence rate		Number of people
on 12/31/11	Rate per 100,000	living with HIV/AIDS
Norfolk County, MA	128.5	862
Massachusetts Total	277.5	18,170

¹ The denominators for rate calculations are from the MDPH Massachusetts Race Allocated Census 2010 Estimates (MRACE 2010), Massachusetts Department of Public Health, Bureau of Health Information, Statistics, Research, and Evaluation.

² Effective January 1, 2011, the Massachusetts Department of Public Health HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

Data Source: MDPH HIV/AIDS Surveillance Program, Data as of 1/1/12

² Effective January 1, 2011, the Massachusetts Department of Public Health HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

Table 3. People living with HIV/AIDS¹, deaths among people reported with HIV/AIDS, and newly diagnosed HIV infections by year²: 2001– 2010, Norfolk County, Massachusetts³

Year	HIV/AIDS Prevalence	Deaths among those with HIV/AIDS	Diagnosis of HIV Infection
0004	500	47	44
2001	599	17	41
2002	649	8	58
2003	666	21	38
2004	700	11	45
2005	723	14	36
2006	735	22	33
2007	758	19	42
2008	788	12	42
2009	820	10	42
2010	844	3	27

¹ Number of people living with HIV/AIDS on 12/31 of each year

Data source: MDPH HIV/AIDS Surveillance Program, Data as of 1/1/12

²Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for

the most recently available ten-year period after the implementation of HIV infection reporting in 1999.
³ Effective January 1, 2011, the Massachusetts Department of Public Health HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

Table 4. People diagnosed with HIV infection from 2008–2010¹ and people living with HIV/AIDS on December 31, 2011 by gender, place of birth, race/ethnicity, exposure mode, age at HIV infection diagnosis and current age: Norfolk County, Massachusetts²

	HIV Infection Diagr	noses	PLWH/A	
Gender:	N	%	N	%
Male	91	82%	650	75%
Female	20	18%	212	25%
Place of Birth:	N	%	N	%
US _	73 ⁷	66%	647	75%
Puerto Rico/US Dependency ³	'	7	18	2%
Non-US	7	7	197	23%
Race/Ethnicity:	N	%	N	%
White (non-Hispanic)	61	55%	503	58%
Black (non-Hispanic)	32	29%	258	30%
Hispanic/Latino	16	14%	79	9%
Exposure Mode:	N	%	N	%
Male-to-male sex (MSM)	57	51%	361	42%
Injection Drug Use (IDU)	7	6%	122	14%
MSM/IDU	 ⁷	 ⁷	26	3%
Heterosexual Sex	7	6%	109	13%
Other	 7	 ⁷	21	2%
Total Undetermined	38	34%	223	26%
Presumed Heterosexual Sex ⁴ Heatstanding 15	8	7%	61	7%
Undetermined ⁵ A	30	27%	162	19%
Age:	N	%	N	%
	At Diagnosis	7	On December 31,	
Under 13	<i>'</i> 7	⁷ ⁷	2	<1%
13 to 19			8	1%
20 to 24	11	10%	16	2%
25 to 29	10	9%	26	3%
30 to 34	11	10%	33	4%
35 to 39	8	7%	59	7%
40 to 44	19	17%	104	12%
45 to 49	23	21%	172	20%
50 to 54	8	7%	201	23%
55 to 59	9	8%	118	14%
60+	7	6%	123	14%
Total ⁶	111	100%	862	100%

¹ Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for the most recently available three-year period after the implementation of HIV infection reporting in 1999.

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data as of 1/1/12

² Effective January 1, 2011, the Massachusetts Department of Public Health HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

³ Ninety-eight percent of people diagnosed with HIV infection from 2008–2010 who were born in a US dependency were born in Puerto Rico, 1% were born in the US Virgin Islands, 1% were born in Guam and 1% were born in an unknown dependency.

⁴ Includes female sex with male of unknown HIV status or risk. This category is limited to females.

⁵ Includes male sex with female of unknown HIV status or risk, those still being followed up for risk information, those who have died with no determined risk, and those lost to follow-up.

⁶ Total includes Asian/Pacific Islander, American Indian/Alaska Native, other and unspecified race/ethnicity.

⁷ Values less than five are suppressed for populations less than 50,000 or for populations of unknown size. Additional values may be suppressed to prevent back calculation.

Table 5. People living with HIV/AIDS on December 31, 2011 by gender and race/ethnicity: Norfolk County, Massachusetts¹

	Male		Female		
Race/Ethnicity:	N	%	N	%	
White (non-Hispanic) Black (non-Hispanic) Hispanic/Latino Total ²	421 147 62 650	65% 23% 10% 100%	82 111 17 212	39% 52% 8% 100%	

¹ Effective January 1, 2011, the Massachusetts Department of Public Health HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data as of 1/1/12

Table 6. People living with HIV/AIDS on December 31, 2011 by gender and exposure mode: Norfolk County, Massachusetts¹

	Male		Female	е
Exposure Mode:	N	%	N	%
Male-to-male sex (MSM)	361	56%	N/A	N/A
Injection drug use (IDU)	80	12%	42	20%
MSM/IDU	26	4%	N/A	N/A
Heterosexual sex	34	5%	75	35%
Other	11	2%	10	5%
Total Undetermined	138	21%	85	40%
 Presumed heterosexual sex² 	N/A	N/A	61	29%
 Undetermined³ 	138	21%	24	11%
Total	650	100%	212	100%

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² Total includes Asian/Pacific Islander, American Indian/Alaska Native, other and unspecified race/ethnicity.

² Includes female sex with male of unknown HIV status or risk. This category is limited to females.

³ Includes male sex with female of unknown HIV status or risk, those still being followed up for risk information, those who have died with no determined risk, and those lost to follow-up.

N/A=Not Applicable

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data as of 1/1/12

Table 7. People diagnosed with HIV infection by gender and year of diagnosis: Norfolk County, Massachusetts¹, 2001–2010²

	Male		Female		
	N	%	N	%	Total
2001	33	80%	8	20%	41
2002	41	71%	17	29%	58
2003	26	68%	12	32%	38
2004	36	80%	9	20%	45
2005	29	81%	7	19%	36
2006	25	76%	8	24%	33
2007	24	57%	18	43%	42
2008	33	79%	9	21%	42
2009	34	81%	8	19%	42
2010	24	89%	3	11%	27

Effective January 1, 2011, the Massachusetts Department of Public Health HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

Table 8. People diagnosed with HIV infection by race/ethnicity and year of diagnosis: Norfolk County, Massachusetts¹, 2001–2010²

	White Non- Hispanic			Black Non- Hispanic		Hispanic/Latino		cific er	Total ³
	N	%	N	%	N		%		N
2001	20	49%	16	39%	4	4	4	4	41
2002	30	52%	19	33%	4	4	4	4	58
2003	21	55%	14	37%	4	4	 ⁴	4	38
2004	27	60%	10	22%	4	4	4	4	45
2005	22	61%	8	22%	4	4	4	4	36
2006	23	70%	8	24%	4	4	4	4	33
2007	16	38%	24	57%	4	4	4	4	42
2008	24	57%	14	33%	4	4	4	4	42
2009	23	55%	12	29%	4	 ⁴	4	4	42
2010	14	52%	6	22%	7	26%	0	0%	27

¹ Effective January 1, 2011, the Massachusetts Department of Public Health HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

² Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for

² Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for the most recently available ten-year period after the implementation of HIV infection reporting in 1999. Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data as of 1/1/12

the most recently available ten-year period after the implementation of HIV infection reporting in 1999.

³ Totals include American Indian/Alaskan Native individuals, and those of other or undetermined race/ethnicity.

⁴ Values less than five are suppressed for populations less than 50,000 or for populations of unknown size. Additional values may be suppressed to prevent back calculation.

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data as of 1/1/12

Table 9. People diagnosed with HIV infection by place of birth and year of diagnosis: Norfolk County, Massachusetts¹, 2001–2010²

	US		Puerto I US Depen	•	Non-U	IS	Total
	N	%	N	%	N	%	N
2001	28	68%	0	0%	13	32%	41
2002	38	66%	0	0%	20	34%	58
2003	26	68%	0	0%	12	32%	38
2004	31	69%	4	4	4	4	45
2005	25	69%	0	0%	11	31%	36
2006	25	76%	0	0%	8	24%	33
2007	30	71%	0	0%	12	29%	42
2008	31	74%	0	0%	11	26%	42
2009	23	55%	4	4	4	4	42
2010	19	70%	4	4	4	4	27

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Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data as of 1/1/12

the most recently available ten-year period after the implementation of HIV infection reporting in 1999.

³ Ninety-eight percent of all people diagnosed with HIV infection in MA who were born in a US dependency were born in Puerto Rico, 1% were born in the US Virgin Islands, <1% were born in American Samoa, <1% were born in Guam and 1% were born in an unknown dependency.

⁴ Values less than five are suppressed for populations less than 50,000 or for populations of unknown size. Additional values may be suppressed to prevent back calculation.

Table 10. People diagnosed with HIV infection by exposure mode and year of diagnosis: Norfolk County, Massachusetts¹, 2001–2010²

MS	M	IDI	U	MS ID		HT	SX	Oth	ner	Pre HTS			eter- ned ⁴	Total
N	%	N	%	N	%	N	%	N	%	N	%	N	%	N
2001 12 2002 19 2003 12 2004 22 2005 15 2006 17 2007 9 2008 22 2009 21 2010 14	29% 33% 32% 49% 42% 52% 21% 52% 50% 52%	5 8 6 5 5 5 5 5 5 5 5 5	⁵ 14% 16% ⁵ ⁵ 14% ⁵ ⁵ 1-5	5 5 0 0 0 5 5 0	⁵ ⁵ ⁵ 0% 0% ⁵ ⁵ 0%	9 6 5 5 6 6 7 5 5 5 5 5 5 5 5	22% 10% ⁵ ⁵ 17% 18% 17% ⁵ ⁵	0 5 5 0 0 0 0 5 0	0%55 0% 0% 0%5 0% 0%5	-5 7 8 -5 -5 -5 10 -5 -5	⁵ 12% 21% ⁵ ⁵ ⁵ 24% ⁵ ⁵ 0%	13 14 8 13 13 ⁵ 9 9 14	32% 24% 21% 29% 36% ⁵ 21% 21% 33% 26%	41 58 38 45 36 33 42 42 42 27

¹ Effective January 1, 2011, the Massachusetts Department of Public Health HIV/AIDS fact sheets, epidemiologic reports, and other data presentations have been updated to remove all HIV/AIDS cases that were first diagnosed in another state before being reported in Massachusetts.

MSM = Male-to-Male Sex; IDU = Injection Drug Use; MSM/IDU = Male-to-Male Sex and Injection Drug Use; HTSX = Heterosexual Sex; Pres. HTSX = Presumed Heterosexual Sex

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data as of 1/1/12

² Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for the most recently available ten-year period after the implementation of HIV infection reporting in 1999.

³ Includes female sex with male of unknown HIV status or risk. This category is limited to females.

⁴ Includes male sex with female of unknown HIV status or risk, those still being followed up for risk information, those who have died with no determined risk, and those lost to follow-up.

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Table 11. People diagnosed with HIV infection and AIDS within two months and all people diagnosed with HIV infection by year of diagnosis: Norfolk County, Massachusetts¹, 2001–2010²

	HIV and AIDS diagnosed within two months	All HIV infection diagnoses	% diagnosed with HIV and AIDS within two months
Year:	N	N	%
2001	14	41	34%
2002	27	58	47%
2003	14	38	37%
2004	13	45	29%
2005	13	36	36%
2006	12	33	36%
2007	16	42	38%
2008	10	42	24%
2009	17	42	40%
2010	13	27	48%

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before being reported in Massachusetts.

² Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for the most recently available ten-year period after the implementation of HIV infection reporting in 1999. Data Source: MDPH HIV/AIDS Surveillance Program, Data as of 1/1/12

Table 12. People diagnosed with HIV infection and AIDS within two months and all people diagnosed with HIV infection by gender, race/ethnicity, and place of birth: Norfolk County, Massachusetts, ¹ 2008–2010²

	HIV and AIDS diagnosed within two months	All HIV infection diagnoses	% diagnosed with HIV and AIDS within two months
Gender:	N	N	%
Male Female	35 5	91 20	38% 25%
Race/Ethnicity:	N	N	%
White (non-Hispanic) Black (non-Hispanic) Hispanic/Latino Asian/Pacific Islander Other/Undetermined ³	21 11 7 ⁵ ⁵	61 32 16 ⁵ ⁵	34% 34% 44% ⁵ ⁵
Place of Birth:	N	N	%
US Puerto Rico/US Dependencies ⁴ Non-US Total	27 ⁵ ⁵ 40	73 ⁵ ⁵ 111	37% ⁵ ⁵ 36%

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² Reflects year of HIV infection diagnosis among all individuals reported with HIV infection, with or without an AIDS diagnosis for the most recently available three-year period after the implementation of HIV infection reporting in 1999. ³ Includes American Indian/Alaska Native, other and unspecified race/ethnicity.

⁴ Ninety-eight percent of people diagnosed with HIV infection from 2008–2010 who were born in a US dependency were born in Puerto Rico, 1% were born in the US Virgin Islands, 1% were born in Guam and 1% were born in an unknown dependency.

dependency.

⁵ Values less than five are suppressed for populations less than 50,000 or for populations of unknown size. Additional values may be suppressed to prevent back calculation.

Data Source: MDPH HIV/AIDS Surveillance Program (percentages may not add up to 100% due to rounding), Data as of 1/1/12